

Alice Brambilla

Curriculum vitae

Date of birth: [REDACTED]
in: [REDACTED] Bergamo (Italy)
Nationality: [REDACTED]
Address: [REDACTED]
[REDACTED] Italy
Tel.: [REDACTED]
E-mail: [REDACTED]



Degrees and training

2018: Percorso Formativo PF24, University of Pavia (Italy). Courses: Psychology of Learning and Education 6 CFU; Cultural Anthropology 6 CFU; General and Social Pedagogy 6 CFU; Experimental Pedagogy 6 CFU.

2013: PhD in Experimental Ecology and Geobotany, University of Pavia (Italy).

Thesis: "Heterozygosity - Fitness correlation and reproductive success in Alpine ibex (*Capra ibex*)".

Ref. Prof. Giuseppe Bogliani and Dott. Achaz von Hardenberg

2009: Master Degree in Conservation Biology, University of Pavia (Italy). 2 years

Thesis: "Life History Traits of Alpine Ibex, (*Capra ibex*) a comparison with Bighorn Sheep (*Ovis canadensis*)"

Ref. Prof. Giuseppe Bogliani and Dott. Achaz von Hardenberg

2007: Bachelor Degree in Natural Science, University of Pavia (Italy). 3 years

Thesis: "Parental Care of Northern Elephant Seals (*Mirounga angustirostris*)"

Ref. Prof Giuseppe Bogliani and Dott. Filippo Galimberti

Positions held

Jan 2018 - now: Post doc fellowship - University of Zurich, Institute of Evolutionary Biology and Environmental Studies.

Jan 2016 - June 2017: Post doc fellowship - University of Zurich, Institute of Evolutionary Biology and Environmental Studies.

Feb 2016 - Jan 2017: Research fellowship - Gran Paradiso National Park.

2014 - 2015: Post doc fellowship - University of Pavia and Gran Paradio National Park.

2011 - 2013: Phd student, University of Pavia, Department of Earth and Environmental Sciences.

May-October 2010: Gran Paradiso National Park – Alpine Wildlife Research Centre.
Organization of the field season and field work on Alpine ibex long-term monitoring project

Jan-May 2009: Gran Paradiso National Park – Alpine Wildlife Research Centre.
Collaborator for measuring and cataloguing ungulates horn collection (1950-2008) of Gran Paradiso National Park

Oct-Dec 2008: University of Pavia – Animal Biology Department, Natural History Museum.
Lab Assistant for cataloguing, cleaning and restoring part of the museum ancient collection

Other working position

2012-now: Associate in [Wildlife Science snc](#): consultancy to public and private bodies for wildlife and environment conservation and management; consultancy for scientific dissemination; organization of training courses.

Publications

Brambilla, A., & Brivio, F. 2018. Assessing the effects of helicopter disturbance in a mountain ungulate on different time scales. *Mammalian Biology*, 90, 30-37.

DOI <https://doi.org/10.1016/j.mambio.2018.02.001>

Rogora M, Frate L., Carranza M.L., Freppaz M., Stanisci A., Bertani I., Bottarin R., Brambilla A., et al. 2017. Assessment of climate change effects on mountain ecosystems through a cross-site analysis in the Alps and Apennines. *STOTEN*, 624, 1429-1442.

DOI <https://doi.org/10.1016/j.scitotenv.2017.12.155>

Brambilla, A., Keller, L., Bassano, B., & Grossen, C. 2018. Heterozygosity–fitness correlation at the major histocompatibility complex despite low variation in Alpine ibex (*Capra ibex*). *Evolutionary Applications*.

DOI <https://doi.org/10.1111/eva.12575>

Brambilla, A., Biebach, I., Bassano, B., Bogliani, G., von Hardenberg, A., 2015. Direct and indirect causal effects of heterozygosity on fitness-related traits in Alpine ibex. *Proceedings of the Royal Society – B Biological Science* 282: 20141873.

DOI <http://dx.doi.org/10.1098/rspb.2014.1873>

Brivio, F., Grignolio, S., Brambilla, A., Apollonio, M., 2014. Intra-sexual variability in feeding behaviour of a mountain ungulate: size matters. *Behavioral Ecology and Sociobiology*. 68:1649-1660.

DOI <https://doi.org/10.1007/s00265-014-1773-0>

Brambilla, A., Canedoli, C., 2013. How to continue measuring horn growth after capture in Alpine ibex. *Journal of Mountain Ecology*. 9:35-46.

Brambilla, A., von Hardenberg, A., Kristo, O., Bassano, B., Bogliani, G., 2013. Don't Spit in the soup - Faecal avoidance in foraging wild Alpine ibex (*Capra ibex*). *Animal Behaviour*. 86(1):153-158.

DOI <https://doi.org/10.1016/j.anbehav.2013.05.006>

Research experiences

2008-now: Gran Paradiso National Park – Alpine Wildlife Research Centre.

Coordination of the Alpine ibex research project: animals captures and marking; data and sampling collection; coordination of field work; supervision of students and field assistants; projects and manuscript writing.

Dott. Achaz vonHardenberg – achaz.hardenberg@gmail.com

Dott. Bruno Bassano – bruno.bassano@pngp.it

Aug-Sept 2008: Université du Sherbrooke – Quebec (Canada)

Field assistant for research on bighorn sheep. Ram Mountain – Alberta (Canada)

Trap handling of marked animals, behavioural observations.

Prof. Marco Festa-Bianchet – m.festa@USherbrooke.ca

Nov 2006 - March 2007: Elephant Seal Research Group

Field assistant for research on elephant seals. S.Benito's island – Baja California (Mexico)

Marking animals, daily census, behavioural observation, handling and weighting of calf and weanings

Dott. Filippo Galimberti – fil_esrg@eleseal.org

Summer 2004-2003-2002

Tethys Research Institute

Weekly field assistant for research on marine mammals. Mediterranean Sea (Italy)

Sea sighting, observation

Dott. Sabina Airoidi – tethys@tethys.org

Teaching experiences

April 2018. Assistant for the course: Etologia e zoologia applicata. Professor Giuseppe Bogliani. University of Pavia.

November 2016. Assistant for the course: Etologia e zoologia applicata. Professor Giuseppe Bogliani. University of Pavia.

November 2015. Seminars for the course: Etologia e zoologia applicata. Professor Giuseppe Bogliani. University of Pavia.

13-27 July 2014. Didactic and logistic assistance for the course: "Experimental Field Biology: Behaviour, Ecology and Evolution (Bio 380)". Prof. Lukas Keller and Prof. Marta Manser. Institute of Evolutionary Biology and Environmental Studies, University of Zurich.

Co-supervised thesis

Thomas Grubinger. A Matter of Taste or Beneficial Effects: selective food choice in the Alpine ibex. Master's thesis, Department of Evolutionary Biology and Environmental Studies, University of Zurich. 19 Giugno 2018. Supervisor: Prof. Lukas Keller, co-supervisor: Dott.ssa Alice Brambilla

Giulia Soldano. Effect of environmental change on body mass and horn growth in Alpine ibex (*Capra ibex*). Effetto del cambiamento ambientale su massa corporea e crescita delle corna nello stambecco Alpino (*Capra ibex*).

Tesi di Laurea Magistrale in Biologia Sperimentale e Applicata, Università degli Studi di Pavia.

21 marzo 2018. Relatore: Prof. Giuseppe Bogliani, Correlatrice: Dott.ssa Alice Brambilla

Francesca Grossi. Sviluppo di un metodo di riconoscimento individuale dello stambecco alpino (*Capra ibex*) tramite fotoidentificazione.

Tesi di Laurea triennale in Scienze e tecnologia per la natura, Università degli studi di Pavia.

14 ottobre 2017. Relatore: Prof. Giuseppe Bogliani, Correlatrice: Dott.ssa Alice Brambilla

Xavier Bal. Analisi della carica parassitaria gastrointestinale nello stambecco alpino (*Capra ibex*) e sue relazioni con alcuni tratti di life-history dell'ospite

Tesi di Laurea Magistrale in Biologia Sperimentale e Applicata, Università degli Studi di Pavia.

15 Dicembre 2015. Relatore: Prof. Giuseppe Bogliani, Correlatrice: Dott.ssa Alice Brambilla

Alberto Pastorino. Preliminary analysis of temperament in the Alpine ibex (*Capra ibex*): individual differences in flight distance.

Tesi di Laurea Triennale in Scienze e tecnologia per la natura, Università degli studi di Pavia.

18 Dicembre 2014. Relatore: Prof. Giuseppe Bogliani, Correlatrice: Dott.ssa Alice Brambilla

Martina Silba. Comportamento spaziale di due ungulati selvatici simpatrici: il caso del camoscio e dello stambecco alpino nel Parco Nazionale del Gran Paradiso.
Tesi di Laurea Magistrale in Evoluzione Comportamento Animale e dell'Uomo (ECAU), Università degli Studi di Torino.

11 Aprile 2014. Relatrice: Prof.ssa Elisabetta Macchi, Correlatrice: Dott.ssa Alice Brambilla

Michele Battoraro. Studio della contattabilità di individui marcati in una popolazione di stambecco alpino (*Capra ibex*) nel Parco Nazionale Gran Paradiso.

Tesi di Laurea Triennale in Scienze e Tecnologie per la Natura, Università degli Studi di Pavia.

19 Febbraio 2014. Relatore: Prof. Giuseppe Bogliani, Correlatrice: Dott.ssa Alice Brambilla

Xavier Bal. Analisi della dieta dello stambecco alpino (*Capra ibex*) attraverso la tecnica del DNA barcoding.

Tesi di Laurea Triennale in Scienze Biologiche, Università degli studi di Pavia.

19 Dicembre 2013. Relatore: Prof. Giuseppe Bogliani, Correlatrice: Dott.ssa Alice Brambilla

Claudia Canedoli. Social network dynamics of alpine ibex (*Capra ibex*) in Gran Paradiso National Park.

Tesi di laurea specialistica in scienze e tecnologie per la natura, Università degli Studi di Pavia.

Luglio 2013. Relatore: Prof. Giuseppe Bogliani, Correlatrice: Dott.ssa Alice Brambilla

Congress (selected)

Alice Brambilla. Updating of European distribution of Alpine Ibex. 23° Meeting Alpine Ibex European Specialist Group (GSE-AIESG). Kals am Grossglockner (A) 29-31 Ottobre 2015. Invited oral communication

Xavier Bal, Brambilla A., Colombo M., Bassano B. Analysis of the diet of Alpine ibex using the DNA-barcoding technique. 23° Meeting Alpine Ibex European Specialist Group (GSE-AIESG). Kals am Grossglockner (A) 29-31 Ottobre 2015. Oral communication

Alberto Pastorino, Brambilla A., von Hardenberg A. "Fuggire... o restare? differenze individuali nella distanza di fuga dello stambecco alpino (*Capra ibex*)". XXVI Congresso della Società Italiana di Etologia. Parma 24-26 Giugno 2015. Poster.

Alice Brambilla. Update concerning the IBEX map of the Alps. Expert meeting/Conference WISO PLATFORM, Venzone (UD) 02-04 Luglio 2014. Oral communication

Alice Brambilla, Biebach, I., von Hardenberg, A., Bassano, B., Bogliani, G. Causal relationship between heterozygosity and fitness-related traits in Alpine ibex. IX Congresso Italiano di Teriologia, Civitella Alfedena (AQ) 07-10 Maggio 2014. Poster e flash talk.

Alice Brambilla, Achaz von Hardenberg, Bruno Bassano Climate change drives horns shrinkage trend in Alpine ibex in Gran Paradiso National Park. 22nd Meeting of the Alpine Ibex European Specialist Group, Gruppo Stambecco Europa (GSE-AIESG). Zernez (CH) 26-28 October 2012. Oral Communication

Alice Brambilla, Achaz von Hardenberg, Bruno Bassano, Giuseppe Bogliani "Evitamento delle feci durante il foraggiamento nello stambecco Alpino (*Capra ibex*)". XXV Congress of Società Italiana di Etologia, Viterbo e Tarquinia, VT (Italy) 12-15 Settembre 2012. Poster

Alice Brambilla, Achaz von Hardenberg, Bruno Bassano "Effetti dei cambiamenti climatici sulla crescita delle corna dello stambecco alpino (*Capra ibex*) nel Parco Nazionale Gran Paradiso". VII Congress of Associazione Teriologica Italiana ATIT, Fabriano, AN (Italy) 5-7 May 2010. Poster

Alice Brambilla, Achaz von Hardenberg, Bruno Bassano "Climate change drives strong shrinkage trend in the horns of Alpine ibex, *Capra ibex* in the Gran Paradiso National Park". V world congress on mountain Ungulates, Granada (Spain) 11-14 Nov. 2009. Oral Communication

Alice Brambilla, Bruno Bassano, Giuseppe Bogliani, Marco Festa-Bianchet, Achaz von Hardenberg "Life history of Ibex: why are they so different?" XXI meeting of Alpine Ibex European Specialist Group (GSE-AIESG), Ceresole Reale, TO (Italy) 11-12 Dec. 2008. Poster.

Lectures and seminars (selected)

21 Nov 2017. Invited seminar. "Lo stambecco alpino e i cambiamenti climatici: ricerche in corso al Parco Nazionale Gran Paradiso". ISE – CNR Pallanza (VB).

10 Oct 2017. Invited seminar. "I cambiamenti climatici e la sopravvivenza dello stambecco". Bergamoscienza - Museo Civico di Scienze Naturali "Enrico Caffi" Bergamo.

1 April 2015. Invited seminar. "Lo stambecco alpino e i cambiamenti climatici. Ricerche in corso nel Parco Nazionale Gran Paradiso". Trento Museo delle Scienze di Trento – MUSE

18 April 2015. Training lesson for volunteers involved in ibex census in Adamello Park (ass. Uomo e territorio Pro Natura). "Lo stambecco alpino e i cambiamenti climatici". Paspardo (BS).

23-30 March 2015. Refresher course for personnel of the surveillance service of Gran Paradiso National Park. 4 lessons "Aggiornamento mappe di distribuzione dello stambecco in Europa". Noasca, Ronco Canavese, Rhemes Notre Dames, Degioz.

27 June 2014. Refresher course for field and environment guide (AGENVA): "Aggiornamento delle ricerche in corso al Parco Nazionale Gran Paradiso"

02 April 2014. Lecture Series in Behavioural and Evolutionary Ecology University of Bern. Brambilla, A. "Live slow, die old. Life history of Alpine ibex in Gran Paradiso National Park".

Courses, summer school and workshops attended

"Mixed models in R: ecological applications"
Università di Milano Bicocca, Italy 22-24 Febb 2016

"Causal Inference in Ecology"
Università degli Studi di Pavia, Italy 22-24 Aprile 2015

"Analisi di dati ecologici in R: modelli lineari generalizzati e loro estensioni"
Università degli Studi di Firenze, Italy 14 Nov 2014

"Tecniche molecolari applicate all'ecologia (Molecular techniques applied to Ecology)"
Università di Pavia, Italy 22-25 Oct 2012

"GIS expertise"
Università di Pavia, Italy 04 Apr – 02 May 2012

"Statistica Applicata (Applied Statistics)"
Università di Pavia, Italy 17-20 Apr 2012

"A primer of Ecological Genetics"
University of Zurich, Schweiz 03 Oct – 22 Dec 2011

"GLM for Ecologist"
Saint Pierre les Nemours, France 21-24 Nov 2011

Summer School in "Species distribution modelling"
Università di Pavia e Gran Paradiso National Park, Italy 12-18 Sept 2011

Gran Paradiso Summer School in Ecological Statistics "Bayesian Data Analysis for Ecologists"

Stambeccaia di Cogne, Gran Paradiso National Park, Italy 13-17 July 2009

III level course "Modelli e metodi di analisi dati ecologici ed ambientali (Models and Analysis of Ecological Data)" Torino, Italy 19-20-26-27 Jan 2009